SEQUENCE LISTING

<110> SUNESIS PHARMACEUTICALS, INC.
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ZHU, Jian

<120> COMPOUNDS THAT MODULATE THE ACTIVITY OF PTP-1B AND TC-PTP

<130> 39750-0008

<140> to be assigned
<141> 2003-02-25

<150> US 60/361,475
<151> 2002-03-01

<160> 29

<170> FastSEQ for Windows Version 4.0

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<212> PRT
<213> Homo sapiens

<400> 1

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 1               5                  10                  15
Ala Ala Ile Tyr Gln Asp Ile Arg His Glu Ala Ser Asp Phe Pro Cys
            20                  25                  30
Arg Val Ala Lys Leu Pro Lys Asn Lys Asn Arg Asn Arg Tyr Arg Asp
        35                  40                  45
Val Ser Pro Phe Asp His Ser Arg Ile Lys Leu His Gln Glu Asp Asn
    50                  55                  60
Asp Tyr Ile Asn Ala Ser Leu Ile Lys Met Glu Glu Ala Gln Arg Ser
65                  70                  75                  80
Tyr Ile Leu Thr Gln Gly Pro Leu Pro Asn Thr Cys Gly His Phe Trp
                85                  90                  95
Glu Met Val Trp Glu Gln Lys Ser Arg Gly Val Val Met Leu Asn Arg
            100                 105                 110
Val Met Glu Lys Gly Ser Leu Lys Cys Ala Gln Tyr Trp Pro Gln Lys
        115                 120                 125
Glu Glu Lys Glu Met Ile Phe Glu Asp Thr Asn Leu Lys Leu Thr Leu
    130                 135                 140
Ile Ser Glu Asp Ile Lys Ser Tyr Tyr Thr Val Arg Gln Leu Glu Leu
145                 150                 155                 160
Glu Asn Leu Thr Thr Gln Glu Thr Arg Glu Ile Leu His Phe His Tyr
                165                 170                 175
Thr Thr Trp Pro Asp Phe Gly Val Pro Glu Ser Pro Ala Ser Phe Leu
            180                 185                 190
Asn Phe Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Ser Pro Glu His
        195                 200                 205
Gly Pro Val Val Val His Cys Ser Ala Gly Ile Gly Arg Ser Gly Thr
    210                 215                 220
Phe Cys Leu Ala Asp Thr Cys Leu Leu Leu Met Asp Lys Arg Lys Asp
225                 230                 235                 240
Pro Ser Ser Val Asp Ile Lys Lys Val Leu Leu Glu Met Arg Lys Phe
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```
                245                 250                 255
Arg Met Gly Leu Ile Gln Thr Ala Asp Gln Leu Arg Phe Ser Tyr Leu
            260                 265                 270
Ala Val Ile Glu Gly Ala Lys Phe Ile Met Gly Asp Ser Ser Val Gln
        275                 280                 285
Asp Gln Trp Lys Glu Leu Ser His Glu Asp
    290                 295
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<210> 2
<211> 296
<212> PRT
<213> Homo sapiens

<400> 2

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 1               5                  10                  15
Arg Trp Gln Pro Leu Tyr Leu Glu Ile Arg Asn Glu Ser His Asp Tyr
            20                  25                  30
Pro His Arg Val Ala Lys Phe Pro Glu Asn Arg Asn Arg Asn Arg Tyr
        35                  40                  45
Arg Asp Val Ser Pro Tyr Asp His Ser Arg Val Lys Leu Gln Asn Ala
    50                  55                  60
Glu Asn Asp Tyr Ile Asn Ala Ser Leu Val Asp Ile Glu Glu Ala Gln
65                  70                  75                  80
Arg Ser Tyr Ile Leu Thr Gln Gly Pro Leu Pro Asn Thr Cys Cys His
                85                  90                  95
Phe Trp Leu Met Val Trp Gln Gln Lys Thr Lys Ala Val Val Met Leu
            100                 105                 110
Asn Arg Ile Val Glu Lys Glu Ser Val Lys Cys Ala Gln Tyr Trp Pro
        115                 120                 125
Thr Asp Asp Gln Glu Met Leu Phe Lys Glu Thr Gly Phe Ser Val Lys
    130                 135                 140
Leu Leu Ser Glu Asp Val Lys Ser Tyr Tyr Thr Val His Leu Leu Gln
145                 150                 155                 160
Leu Glu Asn Ile Asn Ser Gly Glu Thr Arg Thr Ile Ser His Phe His
                165                 170                 175
Tyr Thr Thr Trp Pro Asp Phe Gly Val Pro Glu Ser Pro Ala Ser Phe
            180                 185                 190
Leu Asn Phe Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Asn Pro Asp
        195                 200                 205
His Gly Pro Ala Val Ile His Cys Ser Ala Gly Ile Gly Arg Ser Gly
    210                 215                 220
Thr Phe Ser Leu Val Asp Thr Cys Leu Val Leu Met Glu Lys Gly Asp
225                 230                 235                 240
Asp Ile Asn Ile Lys Gln Val Leu Leu Asn Met Arg Lys Tyr Arg Met
                245                 250                 255
Gly Leu Ile Gln Thr Pro Asp Gln Leu Arg Phe Ser Tyr Met Ala Ile
            260                 265                 270
Ile Glu Gly Ala Lys Cys Ile Lys Gly Asp Ser Ser Ile Gln Lys Arg
        275                 280                 285
Trp Lys Glu Leu Ser Lys Glu Asp
    290                 295
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<210> 3
<211> 296
<212> PRT
<213> Homo sapiens

<400> 3

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Pro Ile Thr Asp Leu Ala Asp Asn Ile Glu Arg Leu Lys Ala Asn Asp
 1               5                  10                  15
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Gly Leu Lys Phe Ser Gln Glu Tyr Glu Ser Ile Asp Pro Gly Gln Gln
            20                  25                  30
Phe Thr Trp Glu Asn Ser Asn Leu Glu Val Asn Lys Pro Lys Asn Arg
        35                  40                  45
Tyr Ala Asn Val Ile Ala Tyr Asp His Ser Arg Val Ile Leu Thr Ser
    50                  55                  60
Ile Asp Gly Val Pro Gly Ser Asp Tyr Ile Asn Ala Asn Tyr Ile Asp
65                  70                  75                  80
Gly Tyr Arg Lys Gln Asn Ala Tyr Ile Ala Thr Gln Gly Pro Leu Pro
                85                  90                  95
Glu Thr Met Gly Asp Phe Trp Arg Met Val Trp Glu Gln Arg Thr Ala
            100                 105                 110
Thr Val Val Met Met Thr Arg Leu Glu Glu Lys Ser Arg Val Lys Cys
        115                 120                 125
Asp Gln Tyr Trp Pro Ala Arg Gly Thr Glu Thr Cys Gly Leu Ile Gln
    130                 135                 140
Val Thr Leu Leu Asp Thr Val Glu Leu Ala Thr Tyr Thr Val Arg Thr
145                 150                 155                 160
Phe Ala Leu His Lys Ser Gly Ser Ser Glu Lys Arg Glu Leu Arg Gln
                165                 170                 175
Phe Gln Phe Met Ala Trp Pro Asp His Gly Val Pro Glu Tyr Pro Thr
            180                 185                 190
Pro Ile Leu Ala Phe Leu Arg Arg Val Lys Ala Cys Asn Pro Leu Asp
        195                 200                 205
Ala Gly Pro Met Val Val His Cys Ser Ala Gly Val Gly Arg Thr Gly
    210                 215                 220
Cys Phe Ile Val Ile Asp Ala Met Leu Glu Arg Met Lys His Glu Lys
225                 230                 235                 240
Thr Val Asp Ile Tyr Gly His Val Thr Cys Met Arg Ser Gln Arg Asn
                245                 250                 255
Tyr Met Val Gln Thr Glu Asp Gln Tyr Val Phe Ile His Glu Ala Leu
            260                 265                 270
Leu Glu Ala Ala Thr Cys Gly His Thr Glu Val Pro Ala Arg Asn Leu
        275                 280                 285
Tyr Ala His Ile Gln Lys Leu Gly
    290                 295
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<210> 4
<211> 320
<212> PRT
<213> Homo sapiens

<400> 4

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 1               5                  10                  15
Ala Ala Ile Tyr Gln Asp Ile Arg His Glu Ala Ser Asp Phe Pro Cys
            20                  25                  30
Arg Val Ala Lys Leu Pro Lys Asn Lys Asn Arg Asn Arg Tyr Arg Asp
        35                  40                  45
Val Ser Pro Phe Asp His Ser Arg Ile Lys Leu His Gln Glu Asp Asn
    50                  55                  60
Asp Tyr Ile Asn Ala Ser Leu Ile Lys Met Glu Glu Ala Gln Arg Ser
65                  70                  75                  80
Tyr Ile Leu Thr Gln Gly Pro Leu Pro Asn Thr Cys Gly His Phe Trp
                85                  90                  95
Glu Met Val Trp Glu Gln Lys Ser Arg Gly Val Val Met Leu Asn Arg
            100                 105                 110
Val Met Glu Lys Gly Ser Leu Lys Cys Ala Gln Tyr Trp Pro Gln Lys
        115                 120                 125
Glu Glu Lys Glu Met Ile Phe Glu Asp Thr Asn Leu Lys Leu Thr Leu
    130                 135                 140
Ile Ser Glu Asp Ile Lys Ser Tyr Tyr Thr Val Arg Gln Leu Glu Leu
```

```
145                 150                 155                 160
Glu Asn Leu Thr Thr Gln Glu Thr Arg Glu Ile Leu His Phe His Tyr
                165                 170                 175
Thr Thr Trp Pro Asp Phe Gly Val Pro Glu Ser Pro Ala Ser Phe Leu
            180                 185                 190
Asn Phe Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Ser Pro Glu His
        195                 200                 205
Gly Pro Val Val Val His Cys Ser Ala Gly Ile Gly Arg Ser Gly Thr
    210                 215                 220
Phe Cys Leu Ala Asp Thr Cys Leu Leu Leu Met Asp Lys Arg Lys Asp
225                 230                 235                 240
Pro Ser Ser Val Asp Ile Lys Lys Val Leu Leu Glu Met Arg Lys Phe
                245                 250                 255
Arg Met Gly Leu Ile Gln Thr Ala Asp Gln Leu Arg Phe Ser Tyr Leu
            260                 265                 270
Ala Val Ile Glu Gly Ala Lys Phe Ile Met Gly Asp Ser Ser Val Gln
        275                 280                 285
Asp Gln Trp Lys Glu Leu Ser His Glu Asp Leu Glu Pro Pro Pro Glu
    290                 295                 300
His Ile Pro Pro Pro Pro Arg Pro Pro Lys Arg Ile Leu Glu Pro His
305                 310                 315                 320
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<211> 29
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<213> Homo sapiens

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<210> 6
<211> 40
<212> DNA
<213> Homo sapiens

<400> 6
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<210> 7
<211> 34
<212> DNA
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<400> 7
tgccggaatt ccttagtcct cgtgggaaag ctcc 34

<210> 8
<211> 27
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<400> 8
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<210> 9
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<400> 9
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<400> 11
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<210> 12
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<210> 13
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<210> 15
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<400> 15
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<210> 16
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<400> 16
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<400> 18
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<400> 19
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<210> 21
<211> 28
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<400> 21
cttcgatcac agcgcagtag gagaagcg 28

<210> 22
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<400> 22
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<210> 24
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<210> 25
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<400> 25

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<210> 26
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<400> 26
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<210> 27
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<400> 27
ccagtattgt gcgcttttta acgaacc 27

<210> 28
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<400> 28
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<210> 29
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<400> 29
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